

Translation

PATENT COOPERATION TREATY

PCT/DE2003/003034



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P10414WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/DE2003/003034	International filing date (<i>day/month/year</i>) 12 September 2003 (12.09.2003)	Priority date (<i>day/month/year</i>) 14 September 2002 (14.09.2002)
International Patent Classification (IPC) or national classification and IPC B63H 21/20		
Applicant SIEMENS AKTIENGESELLSCHAFT		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 6 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 1 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 13 April 2004 (13.04.2004)	Date of completion of this report 13 December 2004 (13.12.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

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national application No.

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I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
 pages 1-20, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the claims:
 pages 2-34, as originally filed
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages 1, filed with the letter of 18 October 2004 (18.10.2004)
- ☒ the drawings:
 pages 1/4-4/4, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

- These elements were available or furnished to this Authority in the following language _____ which is:
- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-34	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-34	NO
Industrial applicability (IA)	Claims	1-34	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following documents:

- D1: EHRENBURG H D: "GEBaute EINHEITEN UND NEUESTE ENTWICKLUNGEN", SCHIFF UND HAFEN, SEEHAFEN-VERLAG ERIK BLUMENFELD, HAMBURG, DE, vol. 48, no. 12, page(s) 37-38, XP000641578 ISSN: 0938-1643
- D2: WO 02 057132 A (DREFFS ARMIN; HARTIG RAINER (DE); RICHTER STEFAN (DE); RZADKI WOLFG) 25 July 2002 (2002-07-25)
- D3: DREGER W: "ENTWICKLUNGSTENDENZEN BEIM BAU ZUKUENFTIGER KORVETTEN UND FREGATTEN", SCHIFF UND HAFEN, SEEHAFEN-VERLAG ERIK BLUMENFELD, HAMBURG, DE, vol. 53, no. 4, pages 47-52, XP001112254 ISSN: 0938-1643
- D4: US-A-5 417 597 (LEVEDAHL WILLIAM J) 23 May 1995 (1995-05-23)
- D5: DE 100 19 352 A (HEINIG CLAUDIA; HEINIG JUERGEN (DE)) 7 June 2001 (2001-06-07)
- D6: "HOLEBY WINS DESIGN AWARD FOR MODULAR GENSET ENGINE", MARINE ENGINEERS REVIEW, INSTITUTE OF MARINE ENGINEERS, LONDON, GB, 1 April 1996 (1996-04-01), page 26, XP000584287 ISSN: 0047-5955

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- D7: MAHN B ET AL: "CODAG-ANTRIEBSANLAGE AUF FREGATTE F124", SCHIFF UND HAFEN SEEHAFEN-VERLAG ERIK BLUMENFELD, HAMBURG, DE, vol. 50, no. 3, 1 March 1998 (1998-03-01), pages 61-64, XP000750509 ISSN: 0938-1643
- D8: HIRT M ET AL: "WIRTSCHAFTLICHE UND TECHNISCHE OPTIMIERTE GETRIEBE IN FREGATTEN UND KORVETTEN", SCHIFF UND HAFEN, SEEHAFEN-VERLAG ERIK BLUMENFELD, HAMBURG, DE, vol. 50, no. 5, 1 May 1998 (1998-05-01), pages 61-63, XP000750534 ISSN: 0938-1643
- D9: DE 101 04 892 A (SIEMENS AG)
14 August 2002 (2002-08-14)
- D10: GAMBLE B. AND GOLDMAN J.: "High temperature superconducting motors and generators for submarines and surface ships", PROCEEDINGS NAVAL SYMPOSIUM ON ELECTRIC MACHINES, 28-28 July 1997, pages 275-282, XP008000614, NEWPORT, USA
- D11: SHARKE P: "THE HUNT FOR COMPACT POWER", GEOPHYSICS, SOCIETY OF EXPLORATION GEOPHYSICISTS, THE AMERICAN SOCIETY OF MECHANICAL ENGINEERING, April 2000 (2000-04), page COMPLETE, XP008000664, TULSA, USA, ISSN: 016-8033.

1.0 The present application fails to meet the requirements of PCT Article 33(1) because the subject matter of claim 1 does not involve an inventive step (PCT Article 33(3)).

Document D1 is considered to be the prior art closest to the subject matter of claim 1. Said

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document (the references between parentheses relate to D1) discloses:

an outfit system for boats of the "corvette" type, said system comprising standard outfit segments* (standardised MEKO® 100 corvette) for power generation (see figures on page 38), power distribution, propulsion (see figures on page 38) and automation (page 37, column 3, lines 7-8: "consistent use of automation") and comprising a hull that, in respect of size and specification, is appropriate for the outfit system for boats of the "corvette" type, the standard outfit segments being constructed of standard units or components* which are arranged in the hulls of boats of said type in accordance with the specifications of the outfit system for such boats and which *can be incorporated*** into the hulls of other types of boats or ships*** that have different outfit systems.

- * Standardised MEKO® 100 corvette (see page 37, column 1: "The aim is to develop a family of corvettes of the 800-tonne to ca. 1900-tonne class"; page 37, column 3: "MEKO® modules with standardised dimensions and interfaces for weapons systems, electronic systems and ship-operating installations, it always being in the interest of shipyards, and likewise of suppliers, to reduce costs by using serial production in shipbuilding and by standardising the internal components and segments for different types of ships".)

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*** There is always a potential option to incorporate a standardised outfit segment of the MEKO® corvette into a different type of boat or ship. Furthermore, this is a feature of the outfit segment, not of the ship.*

**** This option also applies to speed boats, combat boats, frigates, battleships etc., in so far as there is a requirement for said option.*

Thus, the subject matter of claim 1 differs from the known outfit system in that the type of ship concerned is a "frigate".

However, for a person skilled in the art, it is general knowledge that the feature "frigate" is equivalent to the feature "corvette" according to document D1 and that, if required, said features can be interchanged (see for example D3) in so far as the concept of standardising outfit segments is concerned.

In the absence of an inventive step, the subject matter of claim 1 fails to satisfy the requirements of PCT Article 33(3).

2. The additional features of dependent claims 2-34 are known from D1 or the features do not involve an inventive step (see documents D2-D11 and the corresponding passages cited in the search report), each of said features relating to a use of an outfit element that is known to a person skilled in the art, or to the sub-division of a ship, which sub-division is known to a person skilled in the art.

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In consequence, claims 2-34 fail to meet the requirements of PCT Article 33(3).